

## The National Energy Modeling System: An Overview 2003

### Commercial End-Use Technology Types

End-Use Service by Fuel	Technology Types
Electric Space Heating:	air-source heat pump, ground-source heat pump, boiler, packaged space heating
Natural Gas Space Heating:	boiler, furnace, engine-driven heat pump, absorption heat pump
Fuel Oil Space Heating:	boiler, furnace
Electric Space Cooling:	air-source heat pump, ground-source heat pump, reciprocating chiller, centrifugal chiller, rooftop air conditioner, residential style central air conditioner, window unit
Natural Gas Space Cooling:	absorption chiller, engine-driven chiller, rooftop air conditioner, engine-driven heat pump, absorption heat pump
Electric Water Heating:	electric resistance, heat pump water heater, tankless water heater
Natural Gas Water Heating:	natural gas water heater, tankless water heater
Fuel Oil Water Heating:	fuel oil water heater
Ventilation:	small Constant Air Volume (CAV) system, large CAV system, small Variable Air Volume (VAV) system, large VAV system, fan coil unit, multi-zone CAV system
Electric Cooking:	range, convection oven, deck oven, fryer, griddle, other electric
Natural Gas Cooking:	range, range w/power burner, deck oven, fryer, infrared fryer, griddle, infrared griddle, other
Incandescent Style Lighting:	incandescent, compact fluorescent, halogen, halogen-infrared, coated filament, hafnium carbide
Four-foot Fluorescent Lighting:	magnetic ballast, electronic ballast, electronic w/controls, electronic w/reflectors, scotopic, electrodeless
Eight-foot Fluorescent Lighting:	magnetic ballast, electronic ballast, magnetic-high output, electronic-high output, scotopic, electrodeless
High Intensity Discharge Lighting:	metal halide, mercury vapor, high pressure sodium, sulfur
Refrigeration:	centralized refrigeration system, walk-in cooler, walk-in freezer, reach-in refrigerator, reach-in freezer, ice machine, refrigerated vending machine